AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

 (Currently Amended) A method for production of a rotor of a centrifugal compressor from a monolithic disc comprising:

working said disc in a first radial direction by at least one <u>rotating</u> tool of a numerical control machine, such as to remove shavings and to thereby produce partial <u>finally contoured</u> radial cavities in the <u>encapsulated within outer surfaces of said rotor</u>; and

working each disc in a second radial direction, substantially opposite to said first radial direction by at least one other rotating tool of a numerical control machine such as to remove shavings and thereby produce complete, finally contoured radial cavities.

- 2. (Previously Presented) A method according to claim 1 wherein said first tool works, starting from an outer diameter of the said disc, until said outer partial radial cavities are produced.
- 3. (Previously Presented) A method according to claim 2 wherein said first tool advances with successive terracing operations, and works until an intermediate depth is reached relative to an overall width of a circular ring of the said monolithic disc.
- 4. (Previously Presented) A method according to claim 3 wherein said second tool works, starting from an inner diameter of the said disc, until it reaches said outer partial cavities.
- 5. (Previously Presented) A method according to claim 4 wherein said first tool and the said second tool are the same tool of the said numerical control machine.